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10/573,985	05/10/2006	Eiji Muramatsu	8048-1149	1785
466 YOUNG & TH	7590 10/06/200 OMPSON	EXAMINER		
209 Madison St		CHU, KIM KWOK		
Suite 500 ALEXANDRIA	A, VA 22314	ART UNIT	PAPER NUMBER	
			2627	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary			Application No.	plication No. Applicant(s)					
			10/573,985		MURAMATSU ET AL.				
		E	xaminer		Art Unit				
			Kim-Kwok CHU		2627				
۔ Period foı	- The MAILING DATE of this commur r Reply	nication appea	ers on the cover sh	eet with the co	orrespondence ad	ddress			
WHICI - Extens after S - If NO - Failure Any re	PRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions (NX) (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum signates to reply within the set or extended period for reply the provisive by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(a munication. tatutory period will a v will, by statute, ca	E OF THIS COMN a). In no event, however, apply and will expire SIX (cuse the application to bec	MUNICATION may a reply be time 6) MONTHS from the tome ABANDONED	l. ely filed the mailing date of this o O (35 U.S.C. § 133).				
Status									
1)	Responsive to communication(s) file	ed on <i>Pre-Am</i>	nendment filed on t	8/27/2008					
,	•		ction is non-final.	<u>5,27,2000</u> .					
<i>'</i> —	Since this application is in condition	<i>,</i> —		I matters, pro	secution as to the	e merits is			
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositio	on of Claims								
4)🛛	4)⊠ Claim(s) <u>17-33</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
·	6) Claim(s) <u>17-33</u> is/are rejected.								
· ·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restric	ction and/or e	lection requiremen	nt.					
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•	The specification is objected to by the		✓ accepted or b\	abjected to	by the Evenine				
,	The drawing(s) filed on <u>30 March 20</u>				•	Γ.			
	Applicant may not request that any obje			-		ED 4 4047 IV			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice 3) Inform	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (I ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	Pape 5) Noti	rview Summary (er No(s)/Mail Da ice of Informal Pa er:	te				

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless — (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 17-26, 32 and 33 are rejected under 35 U.S.C. § 102(e) as being anticipated by Lee et al. (U.S. Patent 7,113,475).

Lee teaches an information recording medium having all of the elements and means as recited in claims 17-26, 32 and 33. For example, Lee teaches the following:

(a) with respect to Claim 17, the information recording medium comprising a plurality of recording layers to record therein information (Fig. 1; column 9, lines 22-26), wherein at least one of the plurality of recording layers has a management information area (Fig. 1; lead-in is a management information area; column 4, lines 1-4) to record therein recording condition information 35 (Fig. 2) which indicates an optimum recording condition for each recording layer when the information is recorded (Figs. 3A and 3B; column 5, lines 4-16).

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(b) with respect to Claim 18, the recording speed information 35 which indicates the recordable maximum speed for each of the plurality of recording layers is recorded in the management information area (Figs. 3A and 3B).

- (c) with respect to Claim 19, the recording condition information 35 for each of the plurality of recording layers is recorded in the management information area (lead-in), correspondingly to the recording speed information (Figs. 3A and 3B; each recording layer has a lead-in area).
- (d) with respect to Claim 20, a table (Fig. 2) on which the recording speed information and the recording condition information are registered (recorded) for each of the plurality of recording layers, and which has an index (number), is recorded in the management information area (Figs. 3A and 3B).
- (e) with respect to Claim 21, identification information 10a (Fig. 1) for identifying the information recording medium is recorded in the management information area (Fig. 1).
- (f) with respect to Claim 22, the recording condition information is at least partially recorded (pre-recorded by manufacturer) from the beginning of production of the information recording medium, as pre-information of the information recording medium (Fig. 1; column 4, lines 5-10).

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(g) with respect to Claim 23, the recording condition information 30 (Fig. 1) is at least partially recorded or updated (re-recordable), as written-once or rewritable information (Fig. 1).

- (h) with respect to Claim 24, the management information area (lead-in) is disposed nearer an inner circumference in a top layer out of the plurality of recording layers, and includes a portion in which the recording condition information 30 with respect to the plurality of recording layers is collectively recorded (Fig. 1; each recording layer has its lead-in area).
- (i) with respect to Claim 25, the management information area (lead-in) is disposed in each of the recording layers (Fig. 1; each recording layer has its lead-in area).
- (j) with respect to Claim 26, the recording speed information 30 is defined to indicate a higher speed (maximum) in an upper layer side out of the plurality of recording layers (Figs. 3A and 3B; one layer has a maximum speed information recorded).
- (k) with respect to Claim 32, the recording condition information 30 includes strategy information (Fig. 1; disc test, drive test and deflect management are strategy information).
 - (1) with respect to Claim 33, the recording condition

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information 30 includes optimum power information (disc test) of laser for recording (Fig. 1).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. \$ 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 27-31 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Lee et al. (U.S. Patent 7,113,475) in view of Ito et al. (U.S. Patent 7,184,377).
- 5. Lee teaches an information recording medium very similar to that of the present invention as recited in Clams 27-30. For example, Lee teaches the following:
- (a) with respect to Claim 27, the recording medium (Fig.1) comprising a plurality of recording layers to record therein

the information (Fig. 1; column 9, lines 22-26), wherein at least one of the plurality of recording layers has a management information area (lead-in) to record therein recording condition information 30 (Fig. 1) which indicates an optimum recording

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condition (such as OPC under a certain disc speed) for each recording layer when the information is recorded (Figs. 3A and 3B; column 5, lines 4-16).

- (b) with respect to Claims 28 and 29, recording speed information which indicates the recordable maximum speed for each of the recording layers is recorded in the management information area, and the recording condition information for each of the recording layers is recorded, correspondingly to the recording speed information (Figs. 3A and 3B).
- (c) with respect to Claim 30, identification information

 10a for identifying the information recording medium is recorded

 in the management information area (Fig. 1).

However, Lee does not teach the following:

- (a) with respect to Claim 27, an information recording apparatus comprising a reading device for reading the recording condition information from the management information area;
- (b) with respect to Claims 27-29, a recording speed setting device for setting a recording speed corresponding to a recording target layer in which the information is to be recorded, on the basis of the read recording condition information; and

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(c) with respect to Claims 27-29, a recording device for recording the information into the recording target layer at the set recording speed;

- (d) with respect to Claim 29, an information recording apparatus comprises a storing device in which the recording condition information which indicates recording condition is registered;
- (e) with respect to Claim 29, the recording speed setting device sets the recording speed and the optimum recording condition, on the basis of (i) the read recording speed information and (ii) a recording condition information which corresponds to the read recording speed information, out of the recording condition information which is registered in the storing device.
- (f) with respect to Claim 30, the information recording apparatus ac comprises a storing device in which (i) recording speed information which indicates the recordable maximum speed and (ii) the recording condition information which indicates an optimum recording condition for each of a plurality of recordable maximum speeds are registered, for each identification information for identifying respective one of a plurality of information recording media;
 - (g) with respect to Claim 30, the reading device reads the

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identification information from the management information area, and

(h) with respect to Claim 30, the recording speed setting device sets the recording speed and the optimum recording condition, on the basis of a recording speed and an optimum recording condition which correspond to the read identification information, out of the recording speed information and the recording condition information which are registered in the storing device.

Ito teaches the following:

- (a) an information recording apparatus (Fig. 18) comprising a reading device 535 (column 22, lines 11 and 12) for reading the recording condition information (Fig. 5; disc information, OPC information related to disc speed etc.) from the management information area (lead-in) (Figs. 16 and 19; step 602);
- (b) a recording speed setting device for setting a recording speed 509 (servo circuit in Fig. 18) corresponding to a recording target layer in which the information (disc information) is to be recorded, on the basis of the read recording condition information (Fig. 19; step 602; recording speed is controlled by the servo circuit); and

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(c) a recording device 535 (Fig. 18) for recording the information (OPC/speed) into the recording target layer at the set recording speed (Fig. 18).

- (d) a storing device (in servo circuit 509) in which the recording condition information (such as speed) which indicates recording condition is registered (servo control maintains the speed condition of the medium);
- (e) the recording speed setting device 509 (Fig. 18) sets the recording speed (servo control) and the optimum recording condition (servo control), on the basis of (i) the read recording speed information and (ii) a recording condition information which corresponds to the read recording speed information, out of the recording condition information which is registered in the storing device (read/write operation affects the servo speed condition of the medium 50).
- (f) the storing device (register in servo control 509) in which (i) recording speed information which indicates the recordable maximum speed and (ii) the recording condition information which indicates an optimum recording condition for each of a plurality of recordable maximum speeds are registered, for each identification information for identifying respective one of a plurality of information recording media (Fig. 18; servo control is operated under the disc information stored in

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the lead-in area);

(g) the reading device reads the identification information from the management information area (Fig. 19), and

(h) the recording speed setting device 509 (Fig. 18; servo control) sets the recording speed and the optimum recording condition, on the basis of a recording speed and an optimum recording condition which correspond to the read identification information, out of the recording speed information and the recording condition information which are registered in the storing device (Fig. 18).

A lead-in area in an optical storage medium is used to store disc operating information such as disc speed, disc type etc. as disclosed in the prior art of Lee. Although Lee does not teach an information apparatus operated under the information stored in the lead-in area, however, to control the read/write operations of Lee's storage medium, it would have been obvious to one of ordinary skill in the art to apply an optical information apparatus such as Ito's to read/write Lee's lead-in operating information stored in the storage medium, because the reading/recoding and speed control devices such as Ito's can access the stored disc optimum operating information stored in the lead-in area and then read/write the storage medium accordingly.

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6. Claim 31 has limitations similar to those treated in the above rejection, and is met by the references as discussed above.

Related Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tanii et al. (7,218,585) is pertinent because Tanii teaches a recording medium having speed control information stored in a lead-in area.

Hirayama et al. (5,966,721) is pertinent because Hirayama teaches a recording medium having two recording surfaces.

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8. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kim CHU whose telephone number is (571) 272-7585 between 9:30 am to 6:00 pm, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen, can be reached on (571) 272-7579.

The fax number for the organization where this application or proceeding is assigned is (571) 273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9191 (toll free).

/Kim-Kwok CHU/

Examiner AU2627

September 30, 2008 (571) 272-7585

/HOA T NGUYEN/

Supervisory Patent Examiner, Art Unit 2627